Report Date: January 13, 2016

Total SGCN: 1: 11 2: 29 3: 82

Secretaria stressors i

Macrogroup: Boreal Upland Forest

Habitat Systems within Macrogroup:

MacrogroupName Boreal Upland Forest

Acadian Low Elevation Spruce-Fir-Hardwood Forest

Acadian Sub-boreal Spruce Flat

Acadian-Appalachian Montane Spr-Fir-Hwd Forest

Boreal Jack Pine-Black Spruce Forest

Boreal Upland Forest Macrogroup - Unknown Habitat System (i.e. Macrogroup)

Description: Wooded uplands characterized by black spruce or jack pine; sometimes by red spruce without temperate

elements

SGCN Associated With This Habitat

		Total 30CN.	٠.	 ۷.	23 3. 62
Class	Amphibia (Amphibians)				SGCN Catego
Species	Ambystoma laterale (Blue-spotted Salamander)				2
Class	Aves (Birds)				SGCN Catego
Species	Picoides dorsalis (American Three-toed Woodpecker)				3
Species	Setophaga castanea (Bay-breasted Warbler)				3
Species	Catharus bicknelli (Bicknell's Thrush)				1
Species	Mniotilta varia (Black-and-white Warbler)				2
Species	Picoides arcticus (Black-backed Woodpecker)				3
Species	Coccyzus erythropthalmus (Black-billed Cuckoo)				3
Species	Setophaga fusca (Blackburnian Warbler)				3
Species	Setophaga striata (Blackpoll Warbler)				3
Species	Setophaga virens (Black-throated Green Warbler)				3
Species	Chroicocephalus philadelphia (Bonaparte's Gull)				3
Species	Poecile hudsonicus (Boreal Chickadee)				2
Species	Buteo platypterus (Broad-winged Hawk)				3
Species	Cardellina canadensis (Canada Warbler)				2
Species	Setophaga tigrina (Cape May Warbler)				3
Species	Tyrannus tyrannus (Eastern Kingbird)				2
Species	Megascops asio (Eastern Screech-owl)				3
Species	Coccothraustes vespertinus (Evening Grosbeak)				2
Species	Passerella iliaca (Fox Sparrow)				3
Species	Perisoreus canadensis (Gray Jay)				3
Species	Ardea herodias (Great Blue Heron)				2
Species	Melospiza lincolnii (Lincoln's Sparrow)				3
Species	Asio otus (Long-eared Owl)				3
Species	Setophaga americana (Northern Parula)				3
Species	Contopus cooperi (Olive-sided Flycatcher)				2
Species	Pinicola enucleator (Pine Grosbeak)				3
Species	Haemorhous purpureus (Purple Finch)				3
Species	Loxia curvirostra (Red Crossbill)				3
Species	Regulus calendula (Ruby-crowned Kinglet)				2
Species	Euphagus carolinus (Rusty Blackbird)				1
Species	Egretta thula (Snowy Egret)				3
Species	Falcipennis canadensis (Spruce Grouse)				3
species	raicipennis canaaensis (Spruce Grouse)				3

Macrogroup: B	Boreal Up	land Forest
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Macrogroup: Bor	eal Upland Forest	
Species	Catharus ustulatus (Swainson's Thrush)	3
Species	Oreothlypis peregrina (Tennessee Warbler)	2
Species	Zonotrichia albicollis (White-throated Sparrow)	3
Species	Loxia leucoptera (White-winged Crossbill)	3
Species	Empidonax flaviventris (Yellow-bellied Flycatcher)	3
Class	Insecta (Insects)	SGCN Category
Species	Hydroptila blicklei (A Caddisfly)	3
Species	Hydroptila parachelops (A Caddisfly)	3
Species	Hydroptila tomah (A Caddisfly)	3
Species	Ochrotrichia denningi (A Caddisfly)	3
Species	Ameletus browni (A Mayfly)	3
Species	Baetisca berneri (A Mayfly)	3
Species	Baetisca carolina (A Mayfly)	3
Species	Baetisca lacustris (A Mayfly)	3
Species	Baetisca rubescens (A Mayfly)	3
Species	Hexagenia rigida (A Mayfly)	3
Species	Metretopus borealis (A Mayfly)	3
Species	Nixe horrida (A Mayfly)	3
Species	Parameletus midas (A Mayfly)	3
Species	Rhithrogena undulata (A Mayfly)	3
Species	Siphlonurus barbaroides (A Mayfly)	3
Species	Siphlonurus barbarus (A Mayfly)	2
Species	Siphlonurus demaryi (A Mayfly)	2
Species	Nepytia pellucidaria (A Moth)	3
Species	Alloperla voinae (A Stonefly)	3
Species	Neoperla mainensis (A Stonefly)	3
Species	Xylena thoracica (Acadian Swordgrass Moth)	3
Species	Bombus pensylvanicus (American Bumble Bee)	2
Species	Stylurus spiniceps (Arrow Clubtail)	3
Species	Cordulegaster obliqua (Arrowhead Spiketail)	3
Species	Bombus ashtoni (Ashton's Cuckoo Bumble Bee)	2
Species	Enallagma durum (Big Bluet)	3
Species	Tramea lacerata (Black Saddlebags)	3
Species	Callophrys lanoraieensis (Bog Elfin)	3
Species	Ophiogomphus colubrinus (Boreal Snaketail)	1
Species	Neurocordulia michaeli (Broad-tailed Shadowdragon)	3
Species	Bombus griseocollis (Brown-belted Bumble Bee)	3
Species	Leucorrhinia patricia (Canada Whiteface)	2
Species	Tramea carolina (Carolina Saddlebags)	3
Species	Ischnura hastata (Citrine Forktail)	3
Species	Gomphus vastus (Cobra Clubtail)	3
Species	Anax longipes (Comet Darner)	3
Species	Progomphus obscurus (Common Sanddragon)	3

Nannothemis bella (Elfin Skimmer)

Ophiogomphus anomalus (Extra-striped Snaketail) *Bombus fernaldae* (Fernald's Cuckoo Bumble Bee)

Species

Species

Species

3

Macrogroup: Boreal Upland Forest

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Species	Hemaris gracilis (Graceful Clearwing)	3
Species	Somatochlora incurvata (Incurvate Emerald)	3
Species	Bombus insularis (Indiscriminate Cuckoo Bumble Bee)	2
Species	Bombus citrinus (Lemon Cuckoo Bumble Bee)	3
Species	Hesperia leonardus (Leonard's Skipper)	3
Species	Arigomphus furcifer (Lilypad Clubtail)	3
Species	Celithemis martha (Martha's Pennant)	3
Species	Enallagma laterale (New England Bluet)	2
Species	Plebejus idas (Northern Blue)	2
Species	Somatochlora minor (Ocellated Emerald)	3
Species	Libellula semifasciata (Painted Skimmer)	3
Species	Lithophane lepida lepida (Pine Pinion)	2
Species	Boloria chariclea grandis (Purple Lesser Fritillary)	2
Species	Ophiogomphus howei (Pygmy Snaketail)	2
Species	Somatochlora brevicincta (Quebec Emerald)	2
Species	Ischnura ramburii (Rambur's Forktail)	3
Species	Somatochlora albicincta (Ringed Emerald)	3
Species	Epeorus frisoni (Roaring Brook Mayfly)	1
Species	Bombus affinis (Rusty-patched Bumble Bee)	1
Species	Bombus sandersoni (Sanderson's Bumble Bee)	3
Species	Polygonia satyrus (Satyr Comma)	3
Species	Enallagma pictum (Scarlet Bluet)	2
Species	Erythrodiplax berenice (Seaside Dragonlet)	3
Species	Aeshna juncea (Sedge Darner)	2
Species	Lanthus vernalis (Southern Pygmy Clubtail)	2
Species	Rhionaeschna mutata (Spatterdock Darner)	3
Species	Pteronarcys comstocki (Spiny Salmonfly)	3
Species	Epiaeschna heros (Swamp Darner)	3
Species	Siphlonisca aerodromia (Tomah Mayfly)	1
Species	Enallagma carunculatum (Tule Bluet)	3
Species	Bombus fervidus (Yellow Bumble Bee)	3
Species	Bombus terricola (Yellowbanded Bumble Bee)	3
Species	Aeshna sitchensis (Zigzag Darner)	3
Class	Mammalia (Mammals)	SGCN Category
Species	Eptesicus fuscus (Big Brown Bat)	2
Species	Lynx canadensis (Canada Lynx)	2
Species	Lasiurus borealis (Eastern Red Bat)	3
Species	Myotis leibii (Eastern Small-footed Myotis)	1
Species Species	Myotis leibii (Eastern Small-footed Myotis) Lasiurus cinereus (Hoary Bat)	1 3
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Species	Lasiurus cinereus (Hoary Bat)	3
Species Species	Lasiurus cinereus (Hoary Bat) Myotis lucifugus (Little Brown Bat)	3 1
Species Species Species	Lasiurus cinereus (Hoary Bat) Myotis lucifugus (Little Brown Bat) Sorex dispar (Long-tailed Shrew)	3 1 3
Species Species Species Species	Lasiurus cinereus (Hoary Bat) Myotis lucifugus (Little Brown Bat) Sorex dispar (Long-tailed Shrew) Synaptomys borealis sphagnicola (Northern Bog Lemming)	3 1 3 1

Macrogroup: Boreal Upland Forest

Class	Reptilia (Reptiles)	SGCN Category
Species	Glyptemys insculpta (Wood Turtle)	1

Endangered (E) and Threatened (T) Plant Species Associated With This Habitat

Class	Monocots Monocotyledoneae	State Status
Species	Giant Rattlesnake-plantain Goodyera oblongifolia	E

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Macrogroup: Boreal Upland Forest

Stressors Associated With This Macrogroup

IUCN Level 2 Threat Name: Air-Bourne Pollutants

Notes: Atmospheric nitrogen, among others, but long term impacts are not clear

IUCN Level 2 Threat Name: Annual and Perennial Non-timber crops

Notes: land conversion to agriculture

IUCN Level 2 Threat Name: Commercial and Industrial Areas

Notes: Impacts likely lower than forest types in southern and central ME

IUCN Level 2 Threat Name: Fire and Fire Suppression

Notes: Accidental fire, or fire supression for a few types (black spruce barrens)

IUCN Level 2 Threat Name: Habitat Shifting or Alteration

Notes: Effects of CC are not clear on forests, but boreal and subalpine are likely among the most vulnerable of Maine's forest

types

IUCN Level 2 Threat Name: Habitat Shifting or Alteration

Notes: Effects of climate change are uncertain, but boreal and subalpine are likely among the most vulnerable of Maine's forest

types

IUCN Level 2 Threat Name: Housing and Urban Areas

Notes: Development is generally a lower stressor moving north and into unorganized towns; boreal upland forest had

comparatively low predicted development in Anderson et al (2013)

IUCN Level 2 Threat Name: Livestock Farming and Ranching

Notes: historically, this had a much greater impact on the landscape in S. Maine.

IUCN Level 2 Threat Name: Logging and Wood Harvesting

Notes: Severity varies depending on intensity. May be a stress to species preferring closed canopy or late-successional systems;

provides habitat for species using early to mid-successional forests; forest mangement also maintains working forest as v

IUCN Level 2 Threat Name: Logging and Wood Harvesting

Notes: Severity varies depending on intensity. May be a stress to species preferring closed canopy or late-successional systems;

provides habitat for species using early to mid-successional forests; working forests can also help provide valuable open

IUCN Level 2 Threat Name: Mining and Quarrying

Notes: Mines for minerals, hard rock, metals; some constituent ecological systems are more prone to being developed as

gravel pits.

IUCN Level 2 Threat Name: Problematic Native Species-Diseases

Notes: Spruce budworm may alter forest conditions, spraying Bt may be a stress for invertebrates

IUCN Level 2 Threat Name: Problematic Native Species-Diseases

Notes: Spruce budworm may alter forest conditions, spraying Bt may negatively impact some native Lepidoptera

IUCN Level 2 Threat Name: Recreational Activities

Notes: motorized vehicle use off-trail

IUCN Level 2 Threat Name: Renewable Energy

Notes: Wind energy development has direct impacts to habitat and when not properly sighted can have long-term impacts to birc

and bat populations

IUCN Level 2 Threat Name: Renewable Energy

Notes: wind farms

IUCN Level 2 Threat Name: Roads and Railroads

Notes: Impacts of logging roads generally lower than public paved roads; depends on the species, type of road etc.

IUCN Level 2 Threat Name: Tourism and Recreational Areas

Notes: Ski area development, & amp; non-motorized trail development

IUCN Level 2 Threat Name: Utility and Service Lines

Notes: Some utility lines may provide early successional or shrub/scrub habitat

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SGCN and Stressors Associated with Habitats

Macrogroup: Boreal Upland Forest

Habitat Conservation Actions:

Relevant conservation actions for this habitat are assigned within broader habitat groupings in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

Species Conservation Actions:

Conservation actions that may benefit species associated with this habitat can be found in Maine's 2015 Wildlife Action Plan: Element 1, Table 1-3. Click on the species of interest to launch a species based report summarizing relevant conservation actions and associated habitats.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.